Division	Division Department		Archives	and Records Offic	ce Use Only
Information & Computing Sciences	Information Systems and Services				
Group			Filing	Code	
Archives and Records OfficeHum	nan Radiation Experiments Sea	rch and Retrieval Pr	ARO-99		
Location 69	-101		LBNL	Accession Date	
Transferee	RE Team		5/4/1995		
Head of Department			FRC A	ccession No.	
•			434	95	
			757		
Records Title					
Human Radiation Experiments Sea	rch and Retrieval Project Expe	riment Summaries			
T. I. I. D. A. A.D. J.			N. 6.0		
Inclusive Date of Records				ontainers	
1940 1989			4	FRC Box	
Brief description of record	S				
boxes overpacked - added 4th box - folder listing will not match what is in boxes. This series contains the write-ups of Human Radiation Experiments done at Lawrence Berkeley Laboratory, as well as University of California at Berkeley, UC San Francisco, and UC Los Angeles. These descriptions were done as a part of the Human Radiation Experiment Records Retrieval Project, July to April, 1994-1995.					
Materials					
Textual					
Records Retention					
Historically Valuable Docume	nts. Do not destroy. A detailed	folder listing is include	ded with the	Records Transmittal	
Destroy/Review on a schedule	d basis with a minimum retenti	on of years. I	Disposal/Re	view Date: Perm.	
This is in accordance with:					
■ The National Archive General Retention Schedule. Citation Proposed S		ch. (July 5th	1991) Sch. 19, Item	1. (1)	
The Department of Energy Ret	tention Schedule. Citation				
Disposal Authorization: The legal retention of the records lis authorize their disposal.	ted on this Records Transmitta	l has elapsed. Since I	forsee no us	e of these records, I	
Sig	gnature of Department Head		Date		<u></u>

Tuesday, April 04, 2017 Page 1 of 11

Division	Department	Filing Code	
Information & Computing Sciences	Information Systems and Services	ARO-990	
Group Archives and Records Off	iceHuman Radiation Experiments Search and		
Records Title			
Human Radiation Experiments Search	h and Retrieval Project Experiment Summaries		
	Container 1 Of	4	
Folder 1	Rewrites of Three DOE Roadmap Experiments Studies on the Rate of Uptake of Iodine-131 in t		
Folder 2	LBL-18 Rewrite. Studies on the Metabolism of	Glycine Labeled with Carbon-14	
Folder 3	LBL-21 Rewrite. Pituitary Irradiation with High-Energy Proton Beams		
Folder 4	Expanded LBL Experiments Summaries: Incidence of Acute Leukemia and Bone Marrow Studies in Polycythemia Vera Patients Treated with Phosphorus-32 and X-rays.		
Folder 5	Treatment of Multiple Myeloma with Phosphoru	us-32, Strontium-89 and Yttrium-90	
Folder 6	Studies on Iodine-131 Uptake in Euthyroid and	Hypothyroid Children	
Folder 7	Studies on the Distribution of Gases, Water and Electrolytes in the Human Body		
Folder 8	Hematological Studies on Patients Treated by T	otal Body Exposure to X-Rays	
Folder 9	Measurement of Inert Gas Exchange and Blood Krypton, and Xenon	Circulation Using Radioactive Nitrogen, Argon,	
Folder 10	Carbon-14 Tracer Studies, Morphine and Codei	ne	
Folder 11	Blood Oxygen Studies in Patients with Polycyth Yttrium Colloids	emia and in Normal Subjects Using Zirconium and	
Folder 12	Roentgen Ray Therapy		
Folder 13	Studies of Sulfur-35-Labeled Methionine in Nor Idiopathic Hypoproteinenia and Cushing's Synd	rmal Adults and in Patients Chronic Hepatic Disease, rome	
Folder 14	Studies of Gastric Electric Potentials		
Folder 15	Uptake Studies and Therapy using Phosphorus-	32 at the Laboratory of Experimental Oncology	
Folder 16	Treatment of Bladder Tumors Using Radiocoba	lt	
Folder 17	Studies of the Effect of Hypophysectomy Upon	Neoplastic Growth	
Folder 18	Studies of Total Body Water with Tritium - San	Quentin	

Tuesday, April 04, 2017 Page 2 of 11

Division]	Department	Filing Code	
Information & Computing Sci	Sciences Information Systems and Services		ARO-990	
Group Archives and Reco	rds OfficeH	Iuman Radiation Experiments Search and		
Records Title				
Human Radiation Experiment	s Search and	Retrieval Project Experiment Summaries		
Folder	19 Stud	dy on the Effects of Injection Volume on Int	ramuscular Radiosodium Clearance Rates	
Folder	20 Bod	y Composition Studies using Tritium		
Folder	21 Mea	Measurement of Residual Fluid in the Fasting Stomach, Using Zr-95-Nb-95		
Folder	22 Trea	Treatment of Cancer with Heavy Charged Particles		
Folder	23 Rad	Radiogold and Yttrium Treatments of Women with Cancer and Ascites		
Folder		Measurement of Total Sodium Space and Total Body Sodium in Normal Subjects and in Patients with Cardiac Edema		
Folder		Blood Volume Studies on Normal Human Subjects and in Pregnancy, Portal Cirrhosis, and Cancer Using Phosphorus-3		
Folder		Total Red Cell Volume, Plasma Volume and Sodium Space in Congestive Heart Failure Using Phosphorus-32 and Sodium		
Folder	27 Pho	Phosphorus-32 Treatments for Breast Cancer		
Folder	28 Stud	Studies on Blood Volume Measurement Using Chromium		
Folder	29 Stud	Studies on the Metabolism of Tritium-Labeled Cholesterol		
Folder	30 Loca	Local Blood Flow in Human Bone Marrow in Leukemia and Neoplastic Diseases Using Iodine-131		
Folder		Sodium Space and Body Sodium Content, Exchangeable with Sodium-24, in Normal Individuals and Patients with Ascites		
Folder	32 Pota	assium-42 in the Localization of Deep-Seate	d Tumors	
Folder	33 Lon	gitudinal Studies		
Folder	34 The	Clearance of Silver-111 from Plasma and L	iver of Cirrhotic and Non-Cirrhotic Patients	
Folder	35 Mea	asurement of Sodium-24 Movement in Norn	nal Humans	
Folder	36 Blo			
Folder		elopment of Imaging Techniques to Visualiad, Gallium, Technetium, Mercury and Iodino	ze Certain Organs Using Radioactive Isotopes of	

Tuesday, April 04, 2017 Page 3 of 11

Division	Department	Filing Code	
Information & Computing Sciences	Information Systems and Services	ARO-990	
Group Archives and Records Office	eHuman Radiation Experiments Search and		
Records Title			
Human Radiation Experiments Search a	and Retrieval Project Experiment Summaries		
Folder 38	Uptake of I-131 into the Thyroids of Cancer Pat	ients	
Folder 39 (Chelated Yttrium-90 as Internal Radiation Thera	apy for Leukemia	
Folder 40 1	Metabolism Studies Using Palmitic Acid Labele	d With Carbon-14	
	The Effect of Erythropoietic Stimulation on Mar 59 and Iron-52	rrow Distribution in Man, Rabbit and Rat Using Iron-	
Folder 42 1	Physiological Studies on Mount Everest Climbe	rs	
Folder 43 S	Sodium Selenite-Se75 for Tumor Localization S	tudies	
Folder 44 1	Iron Kinetics - Classification and Evaluation of Patterns of Erythropoiesis in Polycythemia Vera		
Folder 45 1	Bone Blood Flow Shown with Fluorine-18 and the Positron Camera		
Folder 46 l	Diminished Oxidation of 14C-UL-L-Asparagine to 14CO2 in Mice and Humans with Tumors		
Folder 47 (Carbon-14 Bicarbonate Kinetics in Adult Males		
Folder 48 1	Radioisotope Kinetics Studies in Erythropoeisis Using Iron-59		
	Effect of L-Methionine Ingestion on 14CO2 Exc Acid and Vitamin B12 Deficient Humans	cretion from L-Histidine (Imidazole-2-14C) in Folic	
Folder 50 t	ffects of Heavy Ions on the Neuron System with	Special Reference to Vision	
Folder 51 S	Serum Glyceride Turnover Studies in Obese Wo	men Using Carbon-14-Labeled Glycerol	
Folder 52 (C-14 Labeled Glycine		
Folder 53 l	Radioactive Aspirin		
Folder 54 l	Fe-59 - 12 Healthy Men, 1964 Sargent, Saito, Pa	arker, Lawrence	
	Additional Backup Information for DOE "Road Treatment of Leukemia with Phosphorous-32	map" Experiments Published February 1995: LBL-1	
Folder 56 1	LBL-2. Metabolic Studies of Bone Tumors Usin	ng Strontium-89	
Folder 57 l	LBL-3. Inhalation Studies Using Carbon		

Tuesday, April 04, 2017 Page 4 of 11

Division	Department	Filing Code	
Information & Computing Sciences	Information Systems and Services	ARO-990	
Group Archives and Records Office	Human Radiation Experiments Search and		
Records Title			
Human Radiation Experiments Search as	nd Retrieval Project Experiment Summaries		
Folder 58 L	BL-4. Inhalation of Zirconium-89 on Smoke F	Particles	
Folder 59 L	BL-5. Radioactive Phosphorous as a Possible	Diagnostic Procedure for Breast Tumors	
Folder 60 L	BL-8. Durbin's Followup of Pu and Americius	m Injections	
Folder 61 L	BL-9. Uptake of Iodine-131 in Thyroids of Ps	ychiatric Patients	
Folder 62 L	BL-11. Radiation-Related Studies Involving In	mates at San Quentin Prison	
Folder 63 L	BL-12. Blood and Tissue Studies with Iron-59		
	BL-15. Measures of Body Fat and Related Facelesium-137	tors in Normal Adults Using Potassium-40 and	
Folder 65 L	LBL-17. A Physiological Study in the Peruvian Andes Using Iron-59		
Folder 66 L	LBL-18. Studies on the Metabolism of Glycine Labeled with Carbon-14		
Folder 67 L	LBL-19. Astatine-211 and the Thyroid		
Folder 68 L	LBL-23. Radionuclide Studies to Determine Bone Marrow Distribution in Man		
	Container 2 Of	4	
Folder 1 L	eads to Experiments - Not Enough Info.to Writ	e-Up: ARSENIC: Arsenic	
Folder 2 C	ADMIUM: Cadmium		
Folder 3 C	ARBON: C-14 Carboxyl Labeled Tyrosine - D	l-dihydroxy phynylalanine (DODA)	
	ASA - Carbon Monoxide Analyzer Studies Kir urvival	netics of Heme Catabolism and Red Blood Cell	
Folder 5 A	dminisration of C-14 Labeled Bicarbonate and	Acetate to Diabetics	
Folder 6 C	-14, H-3 Metabolic Studies, Pollycove		
Folder 7 C	-14 and N-15 Labeled Amino Acids		
Folder 8 C	-14 Labeled Analgetics, Elliott 65/66		

Tuesday, April 04, 2017 Page 5 of 11

Division	Department	Filing Code
Information & Computing Sciences	Information Systems and Services	ARO-990
Group Archives and Records Office	eHuman Radiation Experiments Search and	
Records Title		
Human Radiation Experiments Search a	and Retrieval Project Experiment Summaries	
Folder 9 (C-14 Diabetic Young Patients, Havel, 1962	
Folder 10 0	C-14 on Skin, Maibach	
Folder 11 0	C-14 in Pregnant Women Getting Abortion	
Folder 12 G	C-14, H-3 Skin Studies, William Epstein	
Folder 13 U	UCSF MSS 83-5 Dr. Harvey M. Patt Papers, Alp	en, Edward cv
Folder 14 (C-14 Labeled Stilbamidine	
Folder 15 G	CESIUM: Cesium-137 Mid 1960's Intercompar	rison Program
	CHROMIUM-51: Chromium-51 Tagged Cells f Normals	from Patient with Hemolytic Episodes Injected Into
Folder 17 (Cr-51 Hematological Studies in Cancer, Petrakis	
Folder 18 0	Cr-51 Blood Volume Determinations	
Folder 19 0	Cr-51 Blood Volume Determinations in Infants v	with Pulmonary Hyperfusion
Folder 20 C	COBALT: Co-60 Labeled Vitamin B-12	
Folder 21 C	Co-60 in Anemia	
	COLLOIDS: Colloids - Chromic Phosphate, Yttr Phosphate	rium Citrate, Zirconium Lactate, Zirconium
Folder 23 (COPPER: Cu-64 Uptake	
Folder 24 I	FALLOUT: Fallout - Marshall Islanders, 1955	
Folder 25 1	FLUORINE: F-18 Dr. Herman Bechs	
Folder 26 0	GALLIUM: Ga-72 Uptake, Laboratory of Experi	imental Oncology
Folder 27 I	PHOSPHOROUS: P-32 Treatment for Skin Can	cer and Disorders, Low-Beer
	P-32, Na-24, and I-131 Di-iodofluorescein Expe Experimental Oncology	riments on Cancer Patients at the Laboratory of

Tuesday, April 04, 2017 Page 6 of 11

Division	Department	Filing Code
Information & Computing Sciences	Information Systems and Services	ARO-990
Group Archives and Records Office	ceHuman Radiation Experiments Search and	
Records Title		
Human Radiation Experiments Search	and Retrieval Project Experiment Summaries	
Folder 29	Chromic Phosphate Hepatoma Patient (Jones &	Wrobel, 1941)
Folder 30	Phosphorus, Strontium, Chromate in Children, Y	Yeazell, UCSF
Folder 31	PLUTONIUM: Plutonium Tracer Studies	
Folder 32	POTASSIUM: K-42 Total Body Potassium in M	an, UCSF
Folder 33	K-42 in Normals (Nello Pace) 1950	
Folder 34	K-42 in Pregnant Women	
Folder 35	RADIOACTIVE SUBSTANCES: Uptake and C	oncentration of Radioactive Substances
Folder 36	Experimental Radiation Techniques	
Folder 37	RUBIDIUM: Brain Tumor Localization and Blo Yen, Yukio Yano, R. Friedland, T.F. Budinger	od Barrier Studies Using Rb-82, 1980 Chi-Kwan
Folder 38	SODIUM: Sodium, Zirconium, Yittrium Fitness	Studies
Folder 39	Na-24 Patients with Hypertension, Edelman, 196	52
Folder 40	STRONTIUM: Sr-90, Sr-85, Carr et al 1954	
Folder 41	SULFUR: Sulfur-35 Labeled Albumin, Sulfur/Pr	rotein Turnover Studies
Folder 42	Sulfur-35 on Skin, Maibach	
Folder 43	Sulfur-35 Labeled Methionine and Cystine/I-13 Tarver, 1956	Labeled Albumin - Twenty Adult Males, Margen
Folder 44	THORIUM: Thorium for Retrograde Ateriograph	hy
Folder 45	TRITIUM: Tritium Labeled Vitamin-D, Smyth	
Folder 46	Labeled Albumen (Tritium?) Nutritional Studies	
Folder 47	Tritium-Doc Secretion, 1962 Biglieri	
Folder 48	URANIUM: Uranium-26 Short Term Dose Tole	rance

Tuesday, April 04, 2017 Page 7 of 11

Division	Department	Filing Code
Information & Computing Sciences	Information Systems and Services	ARO-990
Group Archives and Records Office	ceHuman Radiation Experiments Search and	
Records Title		
Human Radiation Experiments Search	and Retrieval Project Experiment Summaries	
Folder 49	VITAMIN D: Vitamin D Metabolism in Uremic	Children
Folder 50	X-RAYS: X-ray Treatment of Brain Tumors, UC	CSF, Boldrey
Folder 51	XENON, ARGON, KRYPTON: Studies on Chile	dren Using Xenon, Argon, Krypton
Folder 52	YTTRIUM: Yt-95 Tagged Cross Transfusion Ex Oncology	periments at the Laboratory of Experimental
Folder 53	Y-91 John Lawrence, 1948-49	
Folder 54	ZIRCONIUM, ZINC: Zr-95, Zn-65, and Cb-95,	1949-50, Low-Beer and Scott
Folder 55	Zirconium Studies of Intestinal Absorption, 1965	5
Folder 56	Zinc-65 Possible Use on Diabetics, Patients with Sargent	Xanthoma Tubersoum, Leukemia, etc., 1962,
Folder 57	Documentation Not used for Expanded Experime Krypton, Nitrogen	ent List: Gas Exchange Studies with Argon, Xenon,
Folder 58	Xenon at White Mountain (Included in #6 experi	iment list)
Folder 59	Materials on Captive / Vulnerable Populations	
Folder 60	Early Hamilton (Various Isotopes on Normals an Chlorine, Bromine, Iodine	d Patients): Hamilton - Sodium, Potassium,
Folder 61	Outside Scope: Contact Therapy for Skin Cancer Phosphorus, Low-Beer (Doesn't say humans used	with Beta-Ray Emitting Isotopes using Radioactive d.)
Folder 62	Irradiation of Skin - Grant Proposal, Not AEC Fu	ınded
Folder 63	Fetal Thyroidal Uptake of I-127, Fallout	
Folder 64	Rubidium-86 Uptake by Red Blood Cells from C subjects)	Control and Cancer Subjects (done on cells, not
Folder 65	Iron Metablosim Studies in Infants using Fe-59 a	at UCLA
Folder 66	Testicular Irradiation Study 1963-1973, Swedish	Hospital, Seattle, WA
Folder 67	Reference Materials: Research Projects Using Ra	adioactivity at UC campuses

Tuesday, April 04, 2017 Page 8 of 11

Division	Department	Filing Code	
Information & Computing Sciences	Information Systems and Services	ARO-990	
Group Archives and Records Offi	ceHuman Radiation Experiments Search and		
Records Title			
Human Radiation Experiments Search	and Retrieval Project Experiment Summaries		
Folder 68	AEC Contracts		
Folder 69	Veterans Hospital Research (references in corres	pondence, no experiments stated)	
Folder 70	Privately Funded Experiments / Military Experiments	nents	
Folder 71	State Funded Cancer Research (Radiation Experiments on Humans)		
Folder 72	Publications Made Possible by Use of the 60" Cyclotron		
Folder 73	Background Information on Why/How P-32, Cr-51 Used to Determine Blood Volume - Fe-59 to Determine Rate of Fomration of Red Cells		
Folder 74	Histories of Laboratories, etc. for Reference Purposes		
Folder 75	Hardin B. Jones Biographical - Contains Bibliography		
Folder 76	Bibliographies for Various Topics(Possible Leads - Lit Search)		
Folder 77	Reprints Not Applicable to Expanded Experiment List: Already Cited in Roadmap		
Folder 78	Not Applicaple - Non-AEC Funding, No Radioactivity of Humans Used, etc.		
Folder 79	Cs-137, K-40, H-3 Determinations of Body Fat		
	Container 3 Of	4	
Folder 1	University of California Los Angles Experiment Gland Using Iodine 131	List Summaries: UCLA 1 - Scans of the Thyroid	
Folder 2	UCLA 2 - Strontium Studies in Patients with Os Bone, and in Normal Human Subjects	teoporosis, Paget's Disease, Tumor Metastases to	
Folder 3	UCLA 3 - Studies of Hepatic Function and Hepatic Colloidal Gold 198	atic Blood Flow Using Rose Bengal Iodine 131 and	
Folder 4	UCLA 4 - Investigations Using Iodine 131 for R	eticuloendothelial System Studies	
Folder 5	UCLA 5 - Studies of the Behavior of Vitamin B	-12 Labeled with Radioactive Cobalt 60	
Folder 6	UCLA 6 - Comparison Of Fifteen Minute Urina Indices Of Renal Function	ry Excretion Values Of Hippuran I-131 With Other	

Tuesday, April 04, 2017 Page 9 of 11

Division	Department	Filing Code	
Information & Computing Sciences	Information Systems and Services	ARO-990	
Group Archives and Records Offi	ceHuman Radiation Experiments Search and		
Records Title			
Human Radiation Experiments Search	n and Retrieval Project Experiment Summaries		
Folder 7	UCLA 7 - Iodine 131 and 125 as a Diagnostic T	ool in Renal Disease	
Folder 8	UCLA 8 - Retention of I-131 Labeled Human Se	erum Albumin	
Folder 9	UCLA 9 - Photoscans with Colloidal Aggregates	s of Radioalbumin	
Folder 10	10 UCLA 10 - Calcium 47 Absorption Studies in Man		
Folder 11	UCLA 11 - Lung Scans Using Technetium-labeled Radioalbumin Macroaggregates		
Folder 12	UCLA 12 - Brain Tumor Scanning Using Technetium		
Folder 13	UCLA 13 - Measurement of Loss of Labeled Albumin in Children By Means of Total Body Counting		
Folder 14	UCLA 14 - Copper Absorption in Patients with Disorders of Iron Metabolism		
Folder 15	UCLA 15 - Total Body Counting-Labeled Gamr	na Globulins	
Folder 16	UCLA 16 - Manganese Absorption and Retention	on in Humans	
Folder 17	UCLA 17 - Brain Studies in Seizure Disorders U	Jsing Technetium	
Folder 18	UCLA 18 - Kidney Function Studies in Renal T Chelates	ransplant Recipients Using Tc-99m and Iodine-131m	
Folder 19	UCLA 19 - Liver Studies Using Radiopharmace Macroaggregates of Albumin	utical Technetium Sulfur Colloid (Tc-99m)	
Folder 20	UCLA 20 - Demonstration of Vascularity of the	Femoral Head Using Technetium Sulfur Colloid	
Folder 21	UCLA 21 - Thrombophlebitis Scanning Using T	echnetium-99m Macroaggregates of Albumin	
Folder 22	UCLA 22 - Hepatic Portal System Study Involvi Microaggregated Albumin	ng Injection with Au198 Colloid and Tc99m	
Folder 23	UCLA 23 - A Comparison of Heart Chamber Di the Diagnosis of Congenital Heart Disease	lution Curves and Pulmonary Dilution Curves for	
Folder 24	UCLA 24 - Fluorine-18 in Children with Skull A	Abnormalities	
Folder 25	Reference Materials: UCLA Atomic Energy Co	mmission Reports, Publications Lists	

Tuesday, April 04, 2017 Page 10 of 11

Division	Department	Filing Code
Information & Computing Sciences	Information Systems and Services	ARO-990
Group Archives and Records Office-	Human Radiation Experiments Search and	
Records Title		
Human Radiation Experiments Search at	nd Retrieval Project Experiment Summaries	
	Container 4 Of	4

Tuesday, April 04, 2017 Page 11 of 11